REMARKS

In view of the following remarks, Applicant respectfully requests reconsideration and allowance of the subject application. Claims 1-7, 19-26, and 38-40 are original. Claims 8-18, 27-37, and 41-44 were previously canceled without prejudice. Claims 45-49 are new. Claims 1-7, 19-26, 38-40, and 45-49 are pending.

Summary of Argument

Chang et al teaches altering the IP address at which a mobile station receives packets. Chang et al registers a new, temporary IP address for a mobile station so that the mobile station receives packets at the new, temporary IP address. Pending independent claims 1, 19, and 38, however, recite an authorizer, authorizer signal, authorizer identifier, and/or authorizer network address concerned with to where packets are *sent* from a mobile client and not concerned with altering an IP address at which a mobile station receives packets.

Interview Summary for Interview Dated January 23rd, 2006

As required by 37 CFR 1.133(b), Applicant provides the following administrative details concerning the interview. First, this case is under final rejection. Second, the participants were Examiner Ramsey Refai and Michael Colby. Third, the interview was conducted over the phone on January 23rd, 2006.

Applicant also provides the following summary of the issues discussed during the interview. Applicant's representative and the Examiner discussed the Chang reference's teaching of a BSC broadcasting one message to an MS and the MS broadcasting another to the BSC, as well as the Chang reference's teaching

that its IP address changes in a manner inconsistent with some of Applicant's claims. No agreement on the patentability of the independent claims was reached.

The §102 Rejections

Claims 1-5, 19-23, and 38-40 stand rejected under 35 U.S.C. §102(e) as being anticipated by U.S. Pat. No. 6,487,406 to Chang et al. ("Chang et al").

The §103 Rejections

Claims 6-7 and 24-25 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Chang et al in view of U.S. Pat. No. 6,073,016 to Hulthen et al. ("Hulthen").

<u>Argument</u>

Applicant submits that the Office has failed to establish that Chang et al discloses each and every element of Claims 1-5, 19-23, and 38-40 and a *prima facie* case of obviousness in rejecting Claims 6-7 and 24-25. Before discussing the substance of the Office's rejections, however, a section entitled "The §102 Standard" is provided and will be used in addressing the Office's rejections. Following this section, a section entitled "The Chang et al Reference" is provided and describes Chang et al's disclosure, after which Applicant addresses the Office's grounds for rejecting the pending claims.

The §102 Standard

Anticipation is a legal term of art. Applicant notes that in order to provide a valid finding of anticipation, several conditions must be met: (i) the reference must

include each and every element as set forth in the claim (Verdegaal Bros. v. Union Oil Co. of California, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987); and see MPEP §2131); and (ii) the teachings of the reference cannot be modified (see MPEP §706.02, stating that "No question of obviousness is present" in conjunction with anticipation).

The Chang et al Reference

Generally, Chang et al teaches registering a mobile station when out of its home subnet effective to forward packets from the mobile station's old, permanent IP address to a new, temporary IP address. Chang et al's network registers the mobile station by assigning the mobile station a new, temporary IP address. By so doing, Chang et al's network can forward packets to the mobile station. See Chang et al.

More specifically, Chang et al discloses providing seamless mobile IP connectivity between mobile stations (MS) connected to a PCS network via base stations (BS) connected to base station switching centers (BSCs). Each MS is assigned a permanent IP address and associated with a home subnet. When the system detects that the MS is connected to a BSC outside of its home subnet, the MS is assigned a care-of address (COA) to which IP data can be forwarded. IP data from the MS is routed through a gateway router (GR). IP data directed to the MS is directed to the MS's permanent IP address. If the MS is connected to a BSC outside of its home subnet, the data traffic is forwarded to the MS's care-of address. Chang et al teaches performing these actions so that Chang et al 's PCS network may forward data packets to a mobile station. See Chang et al at Abstract.

Response to Rejections

Chang et al teaches altering the IP address at which a mobile station receives packets. Chang et al registers a new, temporary IP address for a mobile station so that the mobile station receives packets at the new, temporary IP address. Pending independent claims 1, 19, and 38, however, recite an authorizer, authorizer signal, authorizer identifier, and/or authorizer network address concerned with to where packets are *sent* from a mobile client and not concerned with altering an IP address at which a mobile station receives packets.

When Chang et al's mobile station moves, the mobile station's address that receives packets also changes. The Office relies on Chang et al's manner of providing a new IP address for a mobile station to anticipate the claimed authorizer, authorizer signal, authorizer identifier, and/or authorizer network address. But these are simply not the same. One is a mobile station's IP address and the other is related to an authorizer agent. One requires that a mobile station's address change. The other does not.

Applicant submits that the Office has failed to establish that Chang et al discloses each and every element of Claims 1-5, 19-23, and 38-40.

Claims 1-7

For the Office's convenience, Applicant sets forth the language of independent Claim 1.

Claim 1 recites a method for broadcasting an announcement signal, comprising:

- o broadcasting a network identifier signal that uniquely identifies a computer network;
- o broadcasting an authorizer signal that identifies an authorizer network address on the computer network, the authorizer network

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address being associated with an authorizer that is configured to authorize mobile clients to utilize the computer network; and

o broadcasting a verifier signal that identifies a verifier network address on the computer network, the verifier network address being associated with a verifier that is configured to verify data packets sent by mobile clients utilizing the computer network.

The Chang et al reference has not been shown to disclose each and every element as set forth in Claim 1 as required by *Verdegaal Bros*.

For the Office's convenience, the Office's argument that Chang et al discloses the elements of Claim 1 is:

As per claim 1, Chang et al teach a method for broadcasting an announcement signal, comprising:

broadcasting a network identifier signal that uniquely identifies a computer network (column 5, lines 40-60 and column 7, lines 7-17);

broadcasting an authorizer signal that identifies an authorizer network address on the computer network, the authorizer network address being associated with an authorizer that is configured to authorize mobile clients to utilize the computer network (column 5, lines 40-60 and column 7, lines 7-17); and

broadcasting a verifier signal that identifies a verifier network address on the computer network, the verifier network address being associated with a verifier that is configured to verify data packets sent by mobile clients utilizing the computer network (column 7, lines 7-17 and lines 28-30).

Office Action, paragraph 4.

And from the Office's Response to Arguments section of the Office Action:

Chang et al teach that a PCS network broadcasts system information (announcement signal), which includes a PCS registration identification (network identifier signal), a Base station (BS) identification (authorizer signal) and a Base

Switching Center (BSC) identifier (verifier signal). When a MS moves from one sub network to another, the MS uses the system information broadcast to determine if it has a PCS registration area or not and whether a PCS registration procedure must be performed. The BS provides wireless connectivity to the registered mobile stations. The BCS analyzes data in the received signal to determine if the MS has moved from within the same subnet or from a different subnet by referring to its MS-BS association table. Therefore Chang et al meets the scope of the claimed inventions. (see column 5, lines 10-67, column 8, lines 19-67, column 7, lines 7-56, column 9, lines 15-55)

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Office Action, portion of paragraph 20 from line 21 of page 6 to line 9 of page 7.

The portions of Chang et al relied on by the Office to reject Claim 1 are:

In operation, system information broadcast by the PCS network and received by each MS 18 includes a PCS registration area identification and a BS identification. Therefore, according to one aspect of the invention, when an MS 18 moves from one BS 16 to another, the MS 18 uses the data in the system information broadcast to determine if it has crossed a PCS registration area or not, and whether a PCS registration procedure must be performed. It can be appreciated that frequent transmission of Mobile IP registration parameters, such a subnet as mask. Advertisement, etc., may consume a large quantity of system information bandwidth. According to a further aspect of the invention, Mobile IP registration parameters are instead conveyed to an MS 18 when a BSC 14 determines that an MS 18 has moved between different subnets. Thus, the information is transmitted to the MS only when it is specifically needed. Various MS registration scenarios will now be discussed with further reference to the example network configuration illustrated in FIG. 3 and the flow diagrams of FIGS. 4 and 5.

Chang et al, column 5, lines 40-60.

Upon receiving the Agent Advertisement, the MS sends a datagram (a Mobile IP Registration Request message) to the BSC

directed to the MS's HA. The datagram is a conventional LAN registration message and includes the information provided to the MS in the BSC's agent advertisement, (e.g., the IP addresses of the MS, FA, HA, COA, and the lifetime). Upon receiving the datagram, the BSC does not interpret the message, but instead forwards it to the present subnet's FA. The FA determines the MS=s HA and forwards the Mobile IP Registration Request message to the HA via one or more GRs and possibly the Internet.

Upon receiving the registration datagram, the HA authenticates the MS. If the MS has just moved out of its home subnet and into a foreign subnet, the HA sends a Gratuitous ARP to all other nodes in the HA's subnet instructing them to associate the HA=s hardware address with the MS=s IP address so that datagrams destined for the MS may be intercepted by the HA and forwarded appropriately.

Chang et al, column 7, lines 7-17 and 28-34 (lines 31-34 for context).

The Office argues that: "When a MS moves from one sub network to another, the MS uses the system information broadcast to determine if it has a PCS registration area or not and whether a PCS registration procedure must be performed." See Office Action, page 6-7. Chang et al's Base Station (BS) identification is part of the system information. Id. and see Chang et al. Chang et al's PCS registration is concerned with providing a new IP address for a mobile station. See Chang at Abstract. This Base Station identification, then, is used by Chang et al as part of a process for providing a new IP address for a mobile station. The Office relies on this Base Station identification to anticipate the claimed authorizer, authorizer signal, authorizer identifier, and/or authorizer network address. But these are simply not the same. One is concerned with a mobile station's IP address and the other is related to an authorizer agent. One requires that a mobile station's address change. The other does not.

Specifically, Chang et al's base station identification identifies a base station. Claim 1, however, recites an authorizer network address being associated with an authorizer. Chang et al's base station has not been shown by the Office to be equivalent to the claimed authorizer. Chang et al's base station is concerned, along with other components of Chang et al, with providing a mobile station with a new, temporary IP address. The claimed authorizer is not.

For more detail on these and other reasons showing why the Office fails to show that Chang et al anticipates Claim 1, the Office is referred to the Applicant's prior Response dated September 14th, 2005.

Claims 2-5 depend from Claim 1 and are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features that, in combination with those recited in Claim 1, are neither disclosed nor suggested in references of record, either singly or in combination with one another.

The Office's argument for rejecting Claims 6-7 under 103 does not correct the Office's deficiencies in its rejection of Claim 1, on which Claims 6-7 depend. For at least this reason, Claims 6-7 are allowable as depending from an allowable base claim. Claims 6-7 are also allowable for their own recited features that, in combination with those recited in Claim 1, are neither disclosed nor suggested in references of record, either singly or in combination with one another.

Claims 19-26

For the Office's convenience, Applicant sets forth the language of independent Claim 19.

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Claim 19 recites one or more computer-readable media containing computer-executable instructions that, when executed on a computer, perform the following steps:

- o transmitting a network identifier signal that identifies an associated network;
- o transmitting an authorizer signal that identifies an authorizer on the network, the authorizer being configured to authorize client access to the network; and
- o transmitting a verifier signal that identifies a verifier, the verifier being configured to verify that data packets transmitted to the network are transmitted from clients that have been authorized to access the network.

Applicant submits that the Chang et al reference has not been shown to disclose each and every element as set forth in Claim 19 as required by *Verdegaal Bros*.

For the Office's convenience, the Office's argument that Chang et al discloses the elements of Claim 19 is:

As per claims 19-23, these claims contain similar limitations as claims 1-5 above, therefore are rejected under the same rationale.

Office Action, paragraph 9.

The portions of Chang et al relied on by the Office to reject Claim 1 are set forth for Claim 1 above.

For at least the reasons set forth in the argument relating to Claim 1 above, the Office has not shown that each and every element of Claim 19 is anticipated by Chang et al.

Claims 20-23 depend from Claim 19 and are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features that, in combination with those recited in Claim 19, are neither disclosed nor suggested in references of record, either singly or in combination with one another.

The Office's argument for rejecting Claims 24-26 under 103 does not correct the Office's deficiencies in its rejection of Claim 19, on which Claims 24-26 depend. For at least this reason, Claims 24-26 are allowable as depending from an allowable base claim. Claims 24-26 are also allowable for their own recited features that, in combination with those recited in Claim 19, are neither disclosed nor suggested in references of record, either singly or in combination with one another.

Claims 38-40

For the Office's convenience, Applicant sets forth the language of independent Claim 38.

Claim 38 recites a system, comprising:

- o a network identifier:
- o an authorizer identifier:
- o a verifier identifier;
- o a signal generator configured to generate a signal that communicates the network identifier, the authorizer identifier and the verifier identifier.

The Chang et al reference has not been shown to disclose each and every element as set forth in Claim 38 as required by *Verdegaal Bros*.

For the Office's convenience, the Office's argument that Chang et al discloses the elements of Claim 38 is:

As per claim 38, Chang et al teach a system, comprising: a network identifier; an authorizer identifier; a verifier identifier (column 7, lines 10-15 and column 5, lines 40-60); a signal generator configured to generate a signal that communicates the network identifier, the authorizer identifier and the verifier identifier (column 5, lines 40-55 and column 8, lines 40-55).

Office Action, paragraph 10.

As set forth in the argument for Claim 1 above, Chang et al does not disclose an authorizer identifier. For at least this reason, the Office has not shown that each and every element of Claim 38 is anticipated by Chang et al.

Claims 39-40 depend from Claim 38 and are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features that, in combination with those recited in Claim 38, are neither disclosed nor suggested in references of record, either singly or in combination with one another.

Conclusion

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Applicant respectfully submits that all of the claims are in condition for allowance. The Office is encouraged to call the undersigned if any issues remain that prohibit allowance.

Respectfully Submitted,

Date: 27 Feb 06

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